

# M-OUT-4s: Module with four voltage analogue outputs

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## Technical data

**Supply voltage**  
12 – 16V DC

**Idle current consumption**  
30mA

**Maximum current consumption**  
120mA

## Technical data cont.

**Number of voltage analogue outputs**  
4

**Range of voltage analogue outputs**  
0 – 10V DC

**Maximum current of a single analogue output**  
20mA

## Dimensions

**Width**  
35mm, 2 spaces/modules in DB

**Height (incl. plugs)**  
110mm

**Depth**  
59mm

## Environment

**Temperature**  
-40 – 50°C

**Humidity**  
≤95%RH, non-condensing

The image above is for illustration purpose only. The actual module may vary from the one presented here.

## General features

Module M-OUT-4s is a component of the Ampio system. Required voltage to power the module is 12 – 16V DC. The module is controlled via CAN bus.

The module has four voltage analogue outputs.

## Voltage analogue outputs

Voltage analogue outputs allow for integration with devices that have voltage control inputs compatible with the 0 – 10V DC, 1 – 10V DC, 0 – 5V DC standard, e.g. lighting fixtures, recuperators, inverters, etc.

The voltage of analogue outputs can take values in the range of 0 – 10V DC. The maximum load of a single output is 20mA.

## Typical application

- Controlling devices with analogue voltage inputs, e.g. :
  - lighting fixtures,
  - recuperators,
  - inverters.

## Installation

The module is designed for mounting on a 35mm DIN rail. The module's width is 35mm, 2 spaces/modules in DB. In order to start the module, it must be connected to the CAN bus. The bus of the Ampio system consists of four wires - two for power and two for communication between the modules.

In addition to the CAN bus connector, the device has a connector that allows for the connection of cables to four voltage analogue outputs.

## Device status LEDs

On the front of the module there are signalling LED indicators. The green LED with the label *CAN* indicates the status of communication on the CAN bus:

- one regular flash every 1 sec. – CAN bus communication is working properly,
- two regular flashes every 1 sec. – the module is not receiving information from other modules,
- three regular flashes every 1 sec. – the module cannot send information to the CAN bus;

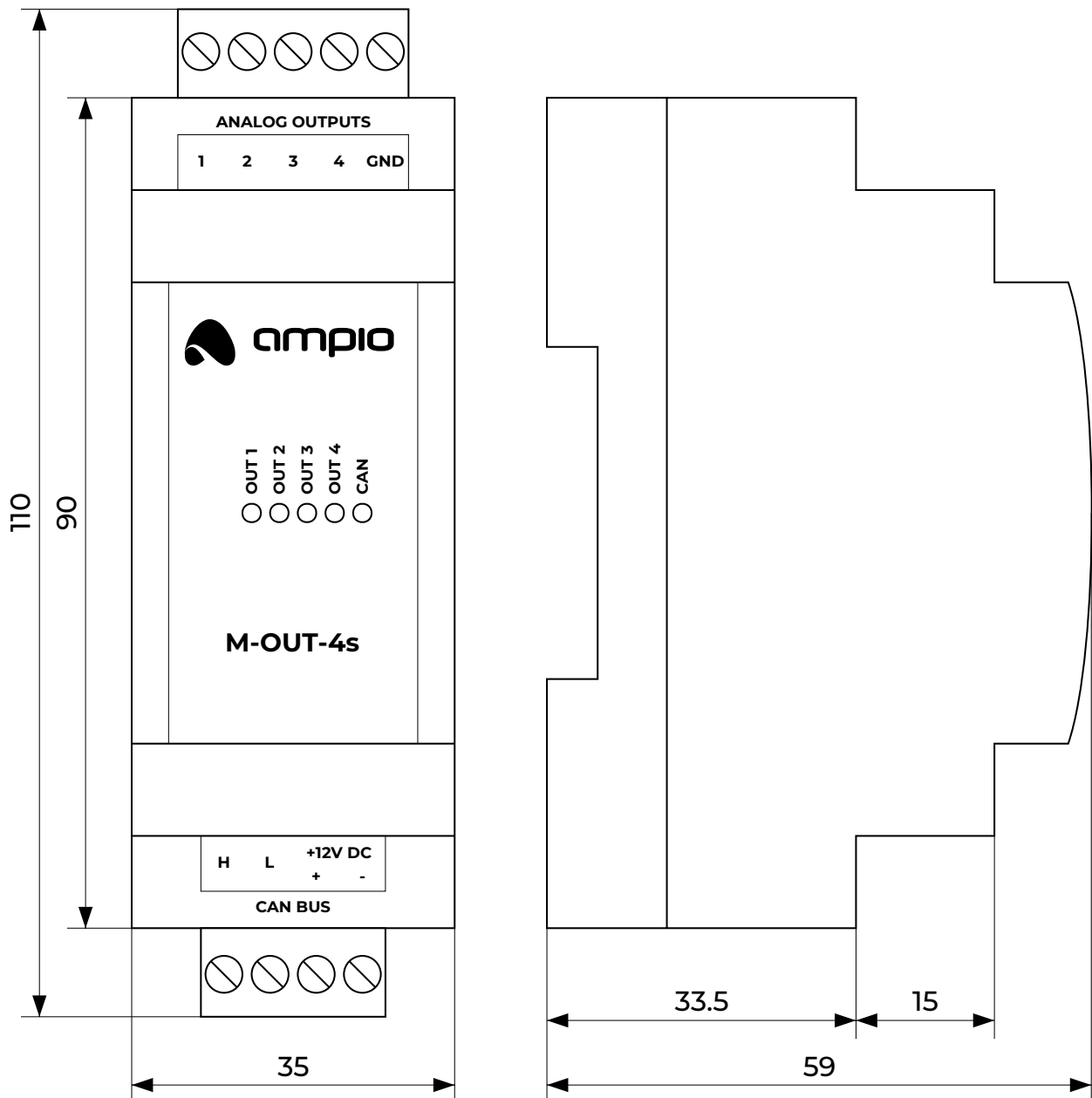
Apart from the diode that indicates the status of the communication bus, on the front of the device there are also four red diodes indicating the state of the analogue outputs.

## Programming

The module is programmed with the use of the [Ampio Designer](#) software. It allows you to modify the parameters of the module and define its behaviour in response to signals directly available to the module as well as general information coming from all devices present in the home automation bus.

## Module dimensions

Dimensions expressed in millimeters.



# Connection diagram

